

Navy Case No. 82,627
Preliminary Amendment in reply to Notice of Non-Compliant Amendment dated May 7, 2004

This listing of claims will replace prior listings of claims in the application:

Listing of claims

Claim 1 (Cancelled).

Claim 2 (Cancelled).

Claim 3 (Cancelled).

Claim 4 (Cancelled).

Claim 5 (Previously Amended). In a method of casting a ductile alloy having a base metal by heating thereof to produce a molten stream that is atomized into a spray of droplets directed onto a moving substrate surface; the improvement residing in: selecting a corrosion resisting material as a component of the alloy undergoing said heating; exclusively limiting said alloy to the base metal and the corrosion resisting material; and utilizing an inert cover gas to atomize the molten stream into said spray of droplets for deposit onto said surface to increase in strength the ductile alloy.

Claim 6 (Previously Amended). The method as defined in claim 5, wherein said base metal is nickel, the corrosion resisting material is chromium and the inert cover gas is nitrogen.

Claim 7 (Previously Amended). In a method of producing an alloy formed exclusively from a base metal and a corrosion resisting component deposited onto a moving substrate surface, the improvement residing in: limiting the alloy exclusively to said base metal and the corrosion-resisting component; and forming the alloy by spray casting under exposure to an inert cover gas for said deposit onto said surface to thereby exhibit high strength while maintaining ductility.

Navy Case No. 82,627

Preliminary Amendment in reply to Notice of Non-Compliant Amendment dated May 7, 2004

Claim 8 (Previously Amended). The method as defined in claim 7, wherein said base metal is nickel, said corrosion-resisting component is chromium and said inert cover gas is nitrogen.

Claim 9 (Currently Amended) In a method of coating a surface with a ductile alloy; the improvement residing in: casting onto said surface a molten stream exclusively limited to: a corrosion-resisting material constituting between 48% and 52% of the ductile alloy undergoing heating during said casting for increase in strength thereof; and a base metal; and selecting an inert cover gas selected to atomize the molten stream into a spray of droplets for deposit onto the surface thereby effecting said increase in strength of the ductile alloy during said casting from a yield strength of less than 145 ksi.